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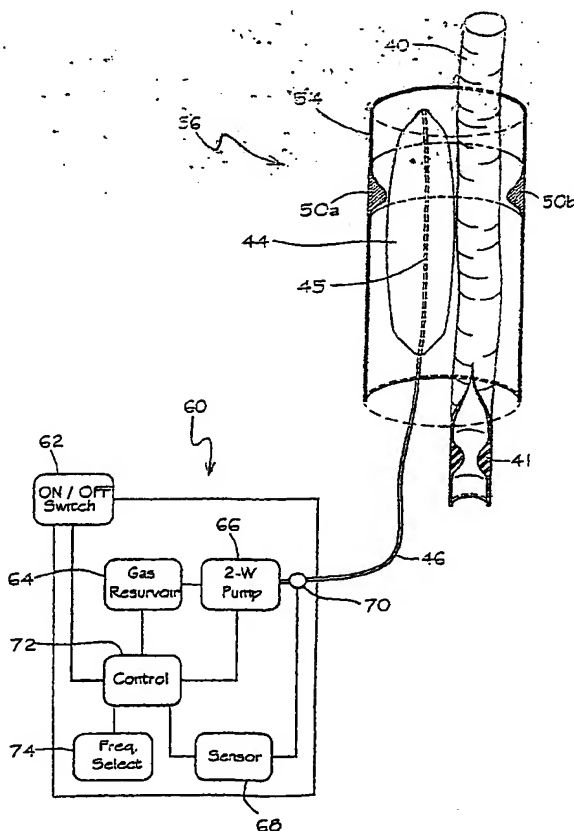
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- (71) Applicant (for all designated States except US): **TECHNION RESEARCH & DEVELOPMENT FOUNDATION LTD. [IL/IL]; The Senat Bld., Technion City, 32100 HAIFA (IL).**
- (72) Inventor: **WEIZMAN, Gaby [IL/IL]; Moshav Magen Shaul 80, 19352 Moshav Magen Shaul (IL).**
- (73) Inventor/Applicant (for US only): **HOFFMAN, Aaron [IL/IL]; 41 D'Israeli st., 34333 HAIFA (IL).**
- (74) Agent: **MILLER - SIERADZKI ADVOCATES & PATENT ATTORNEYS; P.O.B. 6145, 31061 HAIFA (IL).**
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(54) Title: **PERI-ARTERIAL BLOOD FLOW BOOSTER**



(57) Abstract: A peri-arterial blood flow booster apparatus for improving blood pressure and flow, to be implanted around a blood vessel of a patient. The booster comprises a pressure applying device (56) comprising at least one balloon (44), placed alongside a portion of the blood vessel and a restrainer (54) for restraining the balloon and providing counter-forces. It further comprises a control console (60) comprising: an inflating unit (66) for rapidly inflating and deflating the balloon, the inflating unit connected to the balloon; sensing means (68) for sensing electrocardiograph signals of the patient; a control unit (72) for controlling the operation of the inflating unit correlating to the electrocardiograph signals detected by the sensing means. When the balloon is inflated the restrainer forces it to compress the portion of the blood vessel preventing backflow and exerting forces on the blood vessel forcing blood within the portion of the blood vessel to flow antegradely.



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